

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO. 1 DATED 11/16/2007 ADDENDUM NO. DATED
ADDENDUM NO. DATED ADDENDUM NO. DATED

Number	Description
1	Revised Section 00 91 15; Revised Section 04 20 00; Revised Section 08 36 13; Revised Diskette Required.

TOTAL ADDENDA: 1
(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

Contractor

BY _____
Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

President Address

Secretary Address

Treasurer Address

The following is my (our) itemized proposal.

I (We) agree to complete the entire Project within the specified Contract Time.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION**ADDENDUM NUMBER ONE****SECTION 00 91 15**

DATE: NOVEMBER 15, 2007

PROJECT: MAINTENANCE SHOP BUILDING AT HOUSTON,
IN CHICKASAW COUNTY, MISSISSIPPI

PROJECT NUMBERS: BWO-1177-09(001) 501633

PART 1 GENERAL

1.01 DESCRIPTION: Bidders are hereby advised that the following changes are to be made to this Contract. Addendum Number One contains a total of 8 pages.

1.02 SPECIFICATIONS

- A. SECTION 00 01 10 - TABLE OF CONTENT; **DIVISION 04 MASONRY**, omit **(Not Used)** and underneath add SECTION 04 20 00 UNIT MASONRY.
- B. SECTION 04 20 00 UNIT MASONRY; Add the attached Section (six pages) to the Proposal (Project Manual).
- C. SECTION 06 10 00 – ROUGH CARPENTRY; Article 2.04 PLYWOOD; Add Paragraph F. Exterior Plywood Wall Sheathing: Exterior type, 1/2 inch thick, medium density, C Grade for concealed faces.
- D. SECTION 06 10 00 – ROUGH CARPENTRY; add Article 2.08 FELT: Refer to Section 07 26 00 – Vapor Retarders for weather-resistive barrier on exterior face of wall sheathing.
- E. SECTION 06 10 00 – ROUGH CARPENTRY; Article 3.02 ATTACHMENT AND ANCHORAGE; Add Paragraph F. Plywood Sheathing: Panel ends and edges shall have spacing of 1/8 inch, unless otherwise indicated by the panel manufacturer. Nail 6 inches on center along supported panel edges and 10 inches on center at intermediate supports with 6d common nails for panels' 1/2 -inch thick.
- F. SECTION 08 36 13 – SECTIONAL DOORS; Add the attached Section (three pages) to the Proposal (Project Manual).
- G. SECTION 09 05 15 – COLOR DESIGN. Article 2.02 MANUFACTURERS; Add the following finishes to the Color Schedule:
- | | | | |
|----|-----------------------|---------------------------|-------|
| 1. | 04 20 00 – Face Brick | Columbus Brick – Yorktown | (red) |
| 2. | 04 20 00 – Mortar | Holcim-(N) 7 BK Brick Red | (red) |

- G. SECTION 10 56 14 – STORAGE SHELVING; Article 2.02 STORAGE SHELVING, MODULAR WORK BENCHES AND OPEN WORK BENCHES; Add Paragraph E. Fire Resistant Cabinets: Provide two Safety Storage Cabinets equal to Lyons Metal Products model 5661, size 43 inches wide by 18 inches deep by 65 inches high with five shelves and double self-closing doors.
- H. SECTION 13 34 19 – METAL BUILDING SYSTEMS. Article 1.03 STRUCTURAL FRAMING AND ROOF AND SIDING PANELS Paragraph C. change 8 ton to 5 ton.

1.03 DRAWINGS

- A. Make the following changes to Working Number A6.1, Sheet Number 14 – Schedules:
 - 1. The Door Frame Schedule is incorrect in two locations. Change width of Doors 105B and 105D from 14'-0" to 16'-0".
- B. Make the following changes to Working Number S1.1, Sheet Number 15 – Foundation Plan:
 - 1. The vertical dimensions between column lines number 1 and 4 are incorrect. Change these vertical dimensions to coincide with the vertical dimensions that are shown on Working Number A1.2, Sheet Number 4 – Floor Plan.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 04 20 00

UNIT MASONRY

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Brick veneer masonry work as shown on the Drawings and schedules.

1.02 RELATED SECTIONS

- A. Section 09 05 15 – Color Design.

1.03 SUBMITTALS

- A. Submit product data, specifications and other data for each type of masonry unit and accessory required, including certification that each type complies with the specified requirement. Include instructions for handling, storage, installation, cleaning and protection of each. Indicate by transmittal that the Installer has received a copy of each instruction.

1.04 QUALITY ASSURANCE

- A. Fire-rated Masonry: Wherever a fire-resistance classification is shown or scheduled for unit masonry construction (4 hour, 3 hour, and similar designations), comply with the requirements for materials and installation established by the American Insurance Association and other governing authorities for the construction shown.
- B. Job Mock-up: Prior to installation of masonry work, erect sample wall panel mock-up materials, bond and joint tooling shown or specified for final Work. Provide special features as directed for caulking and contiguous work. Build mock-up at the site, where directed, of full thickness and approximately 4 feet by 3 feet unless otherwise shown, indicating the proposed range of color, texture and workmanship to be expected in the completed Work. Obtain MDOT Architect's acceptance of visual qualities of the mock-up before start of masonry work. Retain mock-up during construction as a standard for judging completed masonry work. Do not alter, move or destroy mock-up until Work is completed. Provide mock-up panel for each type of exposed unit masonry work.

1.05 PROJECT CONDITIONS

- A. Protect partially completed masonry against weather, when Work is not in progress, by covering top of walls with strong, waterproof, non-staining membrane. Extend membrane a minimum of 2 inches down both sides of walls and anchor securely in place.
- B. Protect masonry against freezing when the temperature of the surrounding air is 40 degrees F. and falling. Heat materials and provide temporary protection of completed portions of masonry work. Comply with the requirements of the governing code and with the "Construction and Protection Recommendations for Cold Weather Masonry Construction" of the Technical Notes on Brick and Tile Construction by the Brick Institute of America (BIA).

PART 2 PRODUCTS

2.01 ACCEPTABLE BRICK MANUFACTURERS

- A. Equivalent products by the following manufacturers are acceptable:
1. Boral Brick, Hattiesburg, Mississippi
 2. Columbus Brick, Columbus, Mississippi
 3. Old South Brick & Supply Company, Jackson, Mississippi
 4. Tri-State Brick & Tile Company, Inc., Jackson, Mississippi
- B. Substitutions shall fully comply with specified requirements and Section 01 62 14 -Product Options and Substitution Procedures.

2.02 MASONRY UNITS

- A. Obtain masonry units from one manufacturer, of uniform texture and color for each kind required, for each continuous area and visually related areas.

2.03 BRICK, GENERAL

- A. Unless otherwise shown or specified, provide standard size brick (8 inches long x 2-1/4 inches high x 3-3/4 inches wide) for exposed vertical brickwork. At Contractor's option, provide solid or cored brick for vertical brickwork. Do not use cored brick with net cross-sectional area less than 75 percent of gross area in the same plane or with core holes closer than 3/4 inch from any edge. Use solid brick in locations where the cores in cored bricks are exposed to view.
- B. Face Brick: Brick exposed to view, ASTM C 216, Grade SW for exterior exposures.
- C. Building (Common) Brick: Brick not exposed to view, ASTM C 62, Grade SW for exterior exposures and Grade MW for interior masonry which will be concealed by other work. Select from manufacturer's standard colors and textures.

2.04 MORTAR MATERIALS

- A. Mortar mixes shall comply with the requirements of ASTM C 270 Standard Specification for Mortar for Unit Masonry. Type S mortar shall be used for exterior Work. Type N mortar shall be used for interior Work. Mortar color for face brick shall be as selected by the Project Architect from manufacturer's standard colors. Mortar color for building (common) brick shall be natural color or white cement as required to produce the required standard mortar color.
- B. Portland Cement: ASTM C 150 Type I, except Type III may be used for cold weather protection.
- C. Hydrated Lime: ASTM C 207, Type S.
- D. Sand: ASTM C 144, except for joints less than 1/4 inches, use aggregate graded with 70 to 100 percent passing the No. 16 sieve.

2.05 MASONRY ACCESSORIES

- A. Provide adjustable wire ties conforming to ASTM A 82 Specification for Steel Wire, Plain, for Concrete Reinforcement. The wire shall be a minimum of W1.7, 9 gage. Plate portions of adjustable ties shall be a minimum of 14 gage in thickness. Plate portion shall conform to ASTM A 366 Standard Specification for Steel, Carbon, Cold-Rolled Sheet, Commercial Quality. All tie components shall be hot-dip galvanized after fabrication and shall conform to ASTM A 153 Standard Specification for Zinc Coating (Hot Dip) on Iron and Steel Hardware, Class B-2.
- B. Anchoring Devices for Masonry: Provide straps, bars, bolts and rods fabricated from not less than 16 gage sheet metal or 3/8 inch diameter rod stock, unless otherwise indicated.
- C. Concrete Inserts for Masonry:
 - 1. Furnish dovetail shots with filler strips, where masonry abuts concrete. Fabricate from 24 gage galvanized steel unless otherwise indicated.
 - 2. For installation of concrete inserts, see concrete sections of these Specifications. Advise concrete installer of specific requirements regarding his placement of inserts, which are to be used, by the masonry installer for anchoring of masonry Work.
- D. Flashing for Brick Veneer Walls: Provide concealed flashing, shown to be built into masonry, as specified in Section 07650 - Flexible Flashing, unless otherwise indicated.

2.06 MASONRY MAT & WEEP VENTS

- A. Manufacturer and Type: Products equal to CavClear Masonry Mat and CavClear Weep Vents as manufactured by Archovations, Inc., PO Box 241, Hudson, WI 54016. Telephone (888) 436-2620.
 - 1. Description: Airspace maintenance and drainage system for masonry cavities to prevent mortar from making contact with the backup to ensure water management. The system shall be fluid conducting, non-absorbent, mold and mildew resistant polymer mesh consisting of 100 percent recycled polymer with PVC binder. Weep Vents shall have "M" notched bottom. Color to be selected by the MDOT Architect from full range of standard colors
 - 2. Mat Size: 1-1/4 inch thick by 16 inches high by 8 feet long.
 - 3. Weep Vent Size: 1/2 inch thick by 2-1/2 inches high by 3-1/2 inches wide.
- B. Equivalent products by the following manufacturers are acceptable:
 - 1. Advanced Building Products, Inc., Springvale, ME. Tel: (800) 252-2306.
 - 2. Colbond Geosynthetics, Enka, NC. Tel. (800) 664-6638.
- C. Substitutions shall fully comply with specified requirements and Section 01 62 14-Product Options and Substitution Procedures.

PART 3 EXECUTION

3.01 INSPECTION

- A. Masonry installer must examine the areas and conditions under which masonry is to be installed and notify the Project Engineer and the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to masonry installer.

3.02 INSTALLATION

- A. Build single-wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown or specified.
- B. Build chases and recesses as shown and as required for the work of other trades. Provide not less than 8 inches of masonry between chase or recess and jamb of openings and between adjacent chases and recesses.
- C. Cut brick with motor-driving saw designed to cut masonry with clean, sharp, un-chipped edges. Cut units as required to provide pattern shown and to fit adjoining Work neatly. Use full units without cutting wherever possible.
- D. Wet brick having ASTM C67 absorption rates greater than 0.025 oz. per sq. inch per minute. Determine absorption by drawing a circle the size of a quarter on typical units and place 20 drops of water inside the circle. Wet brick units only if water is absorbed within 1-1/2 minutes. The units shall be wetted thoroughly 3 to 24 hours prior to their use so as to allow moisture to become distributed throughout the unit. The units shall be surface dry when laid.
- E. Frozen Materials and Work: Do not use frozen materials or materials mixed or coated with ice or frost. For masonry, which is specified to be wetted, comply with the BIA recommendations. Do not use calcium chloride in mortar or grout.
- F. Pattern Bond: Lay masonry work in a running bond unless indicated otherwise.
- G. Layout walls in advance for accurate spacing of surface bond patterns with uniform joint widths and to properly locate openings, movement type joints, returns and offsets. Avoid the use of less-than half-size units at corner, jambs and wherever possible at other locations. Lay-up walls plumb and true and with courses level, accurately spaced and coordinated with other work.
- H. Stopping and Resuming Work: Rack back 1/2 masonry unit length in each course; do not tooth. Clean exposed surfaces of set masonry, wet units lightly (if specified to be wetted), and remove loose masonry units and mortar prior to laying fresh masonry.

3.03 MORTAR BEDDING AND JOINTING

- A. Mix mortar ingredients for a minimum of 5 minutes in a mechanical batch mixer. Use water clear and free of deleterious materials, which would impair the work. Do not use mortar, which has begun to set, or if more than 2-1/2 hours has elapsed since initial mixing. Re-temper mortar during 2-1/2 hour period as required restoring workability.

- B. Lay brick and other solid masonry units with completely FILLED bed and head joint; butter ends with sufficient mortar to fill head joints and shove into place. DO NOT slush head joints.
- C. Joints: Maintain joints widths shown, except for minor variations required to maintain bond alignment. If not shown, lay walls with 3/8" joints. Cut joints flush for masonry walls that are to be concealed or to be covered by other materials. Tool exposed joints slightly concave. Rake out mortar in preparation for application of caulking or sealant where shown.
- D. Remove masonry units disturbed after laying; clean and relay in fresh mortar. Do not pound corners at jambs to fit stretcher units that have been set in position. If adjustments are required, remove units, clean off mortar, and reset in fresh mortar.

3.04 EXTERIOR BRICK VENEER WALLS

- A. Keep cavity clean of mortar droppings during construction. Strike joints facing cavity, flush.
- B. Tie exterior wythe to back-up with adjustable ties embedded in mortar joints at proper spacing, not more than 16 inches on center vertically and 24 inches on center horizontally. Fasten ties to wood frame with corrosion-resistant nails that penetrate the sheathing and are driven a minimum of 1-1/2 inches into the studs.
- C. Place Masonry Mat continuously full height in exterior masonry cavity prior to construction of exterior wythe; follow manufacturer's installation instructions. Install horizontally between wall ties or joint reinforcement. Stagger end joints in adjacent rows. Butt adjacent pieces to moderate contact. Fit to perimeter construction and penetrations without voids. Use multiple layers at bottom of wall and above through-wall flashings when air space depth exceeds masonry mat thickness by more than 3/8 inch. Extend extra mat at least to top of base flashing.
- D. Place Weep Vents in head joints at exterior wythe of cavity wall located immediately above ledges and flashing, spaced 24 inches on center, unless otherwise shown. Install with notched side down. Leave the side of the masonry units forming the vent space un-buttered and clear from mortar. Slide vent material into joint once the two masonry units forming the weep vent are in place. Install the Weep Vents as the wall is being erected so joints do not become filled with mortar or debris.

3.05 ANCHORING MASONRY WORK

- A. Provide anchoring devices of the type shown and as specified. If not shown or specified, provide standard type for facing and back-up involved. Anchor masonry to structural members where masonry abuts or faces such members to comply with the following:
 - 1. Provide an open space not less than 1/2 inch in width between masonry and structural member, unless otherwise shown. Keep open space free of mortar or other rigid materials.
 - 2. Anchor masonry to structural members with metal ties embedded in masonry joints and attached to structure. Provide anchors with flexible tie sections unless otherwise shown. Space anchors as shown, but not more than 24 inches on center horizontally.

3.06 LINTELS

- A. Install loose lintels of steel and other materials where shown.

3.07 CONTROL AND EXPANSION JOINTS

- A. Provide vertical expansion, control and isolation joints in masonry. Build-in related masonry accessory items as the masonry work progresses. Rake out mortar in preparation for application of caulking and sealants.
- B. Control Joint Spacing: If location of control joints is not shown, place vertical joints spaced not to exceed 25'-0" on center. Locate control joints at points of natural weakness in the masonry work.

3.08 FLASHING OF MASONRY WORK

- A. Provide concealed flashing in masonry work as shown. Prepare masonry surfaces smooth and free from projections, which might puncture flashing. Place through-wall flashing on bed of mortar and cover with mortar. Seal flashing penetrations with mastic before covering with mortar. Terminate flashing 1/2 inch from face of wall, unless otherwise shown. Extend flashing beyond edge of lintels and sills at least 4 inches and turn up edge on sides to form pan to direct moisture to exterior. Provide weep holes in the head joints of the first course of masonry immediately above concealed flashing, spaced 24 inches on center, unless otherwise shown.
- B. Install reglets and nailers for flashing and other related Work where shown to be built into masonry Work.

3.09 REPAIR, POINTING AND CLEANING

- A. Remove and replace masonry units which are loose, chipped, broken, stained or otherwise damaged or if units do not match adjoining units as intended. Provide new units to match units and install with fresh mortar or grout, pointed to eliminate evidence of replacement.
- B. Pointing: During the tooling of joints, enlarge any voids or holes, except weep holes, and completely fill with mortar. Point up all joints at corners, openings and adjacent work to provide a neat uniform appearance, properly prepared for application of caulking or sealant compounds.
- C. Good workmanship and job housekeeping practices shall be used to minimize the need for cleaning the masonry. Clean exposed brick masonry surfaces as recommended by BIA Technical Notes 20 "Cleaning Clay Products Masonry" and masonry manufacturer. Clean exposed masonry by dry brushing at the end of each day's work and after final pointing to remove mortar spots and droppings. Protect the base of the wall from mud splashes and mortar droppings. Should additional cleaning be required apply chemical (muriatic acid is NOT ACCEPTABLE) or detergent cleaning solutions in accordance with the masonry and chemical manufacturers' recommendations.

END OF SECTION

SECTION 08 36 13

SECTIONAL DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Electric operated overhead sectional doors of steel panels.

1.02 SYSTEM DESCRIPTION

- A. Electric operation with chain hoist operation requiring a maximum exertion of 25-lbs. force. Provide electric operation unless manually operated doors are designated on Drawings.

1.03 RELATED SECTIONS

- A. Section 09 05 15 – Color Design.
- B. Division 26 Sections – For Basic Materials and Methods (Wiring).

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, roughing-in diagrams, and installation instructions for each type and size of sectional overhead doors. Include operating instructions and maintenance information with data for shaft and gearing, lubrication frequency, control adjustment, spare part sources. Include both published data and any specific data prepared for this project.
- B. Shop Drawings: Submit shop drawings for approval prior to fabrication. Include detailed plans, elevations, and details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.

1.05 QUALITY ASSURANCE

- A. Furnish each sectional overhead door as a complete unit produced by one manufacturer, including hardware, accessories, mounting and installation components. Unless otherwise acceptable to MDOT Architect, furnish sectional overhead door units by one manufacturer for entire project.
- B. Insert and Anchorage: Furnish inserts and anchoring devices that must be set into walls for the installation of the sectional overhead door units. Provide setting drawings, templates, instructions and directions for installation of anchorage devices. Coordinate delivery with other Work to avoid delay.
- C. Wind Loading: Design and reinforce sectional overhead doors to withstand a 20 PSF (87 MPH) wind loading pressure in the fully closed position unless otherwise indicated.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in labeled protective packages. Store and handle in strict compliance with manufacturers' instructions and recommendations. Protect from damage from weather, excessive temperatures and construction operations.

1.07 WARRANTY

- A. Warranty of door and all components to be free from defects in labor and materials for a period of one year from the date of Final Acceptance.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Drawings and specifications are based on products manufactured by Overhead Door Corp., 6750 LBJ Freeway, Suite 1200, Dallas, TX 75240. Tel. (800) 887-3667.
- B. Equivalent products by the following manufacturers are acceptable:
 - 1. Raynor Garage Doors, P.O. Box 448, Dixon, IL 61021. Tel. (800) 472-9667.
 - 2. Windsor Door, 5800 Scott Hamilton Drive, Little Rock, AR 72209. Tel. (800) 946-3767.
- C. Substitutions shall fully comply with specified requirements and Section 01 62 14-Product Options and Substitution Procedures

2.02 SECTIONAL OVERHEAD DOOR

- A. Steel door assembly with rabbeted meeting rails to form weathertight joints and provide full-width interlocking structural rigidity. Equal to 430 Series Steel Doors by Overhead Door Corporation.

2.03 SECTIONAL DOOR ASSEMBLY

- A. Panels: Two-inch thick flush steel construction; outer sheet of 24-gage galvanized steel, v-grooved profile.
- B. Track: Provide track as recommended by manufacturer to suit loading required and clearances available. Lift track in follow-the-roof configuration.
- C. Hardware: Heavy duty galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.
- D. Door Panel Weatherstripping: Fitted to bottom of door panel, full length; double contact resilient.
- E. Jamb Weatherstripping: Formed metal retainer fitted full height of jamb with integral resilient weatherstripping in moderate contact with door panels.
- F. Electric Motor Operator: Provide UL listed electric operator, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot or more than one foot per second.
 - 1. Entrapment Protection: Electric sensing edge.
 - 2. Operation Controls: Push-button operated control station with open, close, and stop buttons for surface mounting, for interior location.
- G. Finish: Galvanized steel in accordance with ASTM A 525 and receive rust-inhibitive, roll coating process, including bonderizing, 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.

- H. Color: Polyester topcoat in color as selected by Project Engineer / MDOT Architect from manufacturer's standard colors.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Installer shall take field dimensions and examine conditions of substrates, supports, and other conditions under which this Work is to be performed.
 - 1. Notify the Contractor in writing of conditions detrimental to the proper and timely completion of the Work.
 - 2. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.

3.02 PREPARATION

- A. Prepare door opening components to permit installation of door unit and preserve continuity of wall air and vapor barrier seal.

3.03 INSTALLATION

- A. Install door and operating equipment complete with necessary hardware, jamb and head mold strips, anchors, inserts, hangers, and equipment supports in accordance with final shop drawings, manufacturer's instructions, and as specified herein.
- B. Anchor components securely to wall construction and building framing without distortion or stress. Secure tracks to structural members only.
- C. Instruct Owners personnel in proper operating procedures and maintenance

3.04 ADJUSTING AND CLEANING

- A. Upon completion of installation including work by other trades, lubricate, test and adjust doors to operate easily, free from warp, twist, binding or distortion and fitting weathertight for entire perimeter.
- B. Touch-up damaged coatings and finishes and repair minor damage. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer of material or products being cleaned.

3.05 TOLERANCES

- A. Variation from Plumb: 1/8 inch maximum.
- B. Variation from Level: 1/8 inch.
- C. Longitudinal or Diagonal Warp: Plus or minus 1/8 inch from 10-foot straight edge.

END OF SECTION